

Serial No.

10/809,312

Greene et al.

Examiner

McGillem, Laura L.

Filed

March 24, 2004

Group Art Unit:

1636

For

METHODS FOR REGULATING DIFFERENTIATION OF NEURAL

CELLS AND USES THEREOF

## SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

I hereby certify that this paper is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-

1440 on: October 27, 2006 \_\_ Date of Deposit

Van H. Nguyen

56,571

Attorney Name

PTO Reg. No.

October 27, 2006 Date of Signature

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

In supplement to the Information Disclosure Statement filed on November 10, 2004, and the Supplemental Information Disclosure Statement filed on August 14, 2006, and pursuant to the provisions of 37 C.F.R. §§ 1.97 and 1.98, Applicants respectfully request that the publications relating to the above-identified application listed herein and on the accompanying PTO Form 1449, and not previously made of record, be considered by the Examiner and made of record in the United States Patent and Trademark Office.

Copies of non-patent publications, non-U.S. Patent and non-U.S. published Patent Application documents listed are enclosed. The documents contained herein, listed in reverse chronological order, are identified as numbers 1 through 9. The documents listed below are also listed in the accompanying PTO Form 1449, which is submitted in duplicate. Some of the listed documents were cited in the International Search Report for International Patent Publication Number WO 2005/094267, a copy of which is enclosed.

- 1. Mason et al., 2005, ATF5 regulates the proliferation and differentiation of oligodendrocytes, Mol Cell Neurosci., 29(3):372-80.
- 2. Pluchino et al., 2005, Neural stem cells and their use as therapeutic tool in neurological disorders, Brain Res Brain Res Rev., 48(2):211-9.
- 3. Angelastro et al., 2003, Regulated expression of ATF5 is required for the progression of neural progenitor cells to neurons, J Neurosci., 23(11):4590-600.
- 4. Cottrell et al., 2003, Silence of the strands: RNA interference in eukaryotic pathogens, Trends Microbiol., 11(1):37-43.
- 5. Thomas et al., 2003, Progress and problems with the use of viral vectors for gene therapy, Nat. Rev. Genet., 4(5):346-58.
- 6. Beers and Berkow, eds., 1999, The Merck manual of diagnosis and therapy, 17ed., Whitehouse Station, NJ: Merck Research Laboratories, chapter 183.
- 7. Greene et al., 1998, Culture and experimental use of the PC12 rat pheochromocytoma cell line,. In: Culturing nerve cells, 2nd ed., Goslin, G.K., ed., Cambridge, MA, The MIT Press, pp. 161-188.

NY02:565235.1 2

- 8. Bodansky, 1984, Principles of peptide synthesis, New York: Springer-Verlag New York, Inc. (Table of Contents only).
- Gross and Meienhofer, eds., 1981, Peptides: Analysis, Synthesis, Biology: Modern techniques of peptide and amino acid analysis, New York: John Wiley and Sons. (Table of Contents only).

The submission of this Second Supplemental Information Disclosure Statement does not represent that a search has been made or that no better art exists and does not constitute an admission that any of the listed documents are material or constitute "prior art." If the Examiner applies any of the documents as prior art against any claim in the application and Applicants determine that the cited documents do not constitute "prior art" under United States law, Applicants reserve the right to present to the Office the relevant facts and law regarding the appropriate status of such documents.

Applicants further reserve the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

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Applicants believe that no fee in addition to the enclosed fee under 37 C.F.R § 1.17(p) is due in connection with the filing of this Supplemental Information Disclosure Statement. However, if any additional fee is due, or overpayment made, with regard to this communication, the Commissioner is authorized to charge any such fee, and to credit any overpayment, to our Deposit Account No. 02-4377. A copy of this communication is enclosed.

Respectfully submitted,

Lisa B. Kole

Patent Office Reg. No. 35,225

Van H. Nguyen

Patent Office Reg. No. 56,571

Attorneys for Applicants BAKER BOTTS L.L.P. 30 Rockefeller Plaza New York, NY 10112--4498 (212) 408-2500

Enclosures
Form PTO-1449
Copy of cited documents

4

Form PTO-1449 U.S. Department of Commerce (REV. 2-82) Patent and Trademark Office	Atty. Docket No. Serial No. 10/809,312				
INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Applicant Greene et al.				
(Use several sheets if necessary)	Filing Date March 24, 2004	Group 1636			
O, 31 3000 B	Examiner McGillem, Laura L.				
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	U.S. PATENT DOCUMENTS								
*Exam. Initial.	No.	Document No.	Date	Name	Class	Subclass	Filing Date if Approximate.		

	FOREIGN PATENT DOCUMENTS								
Exam Initial	No.	Document No.	Date	Country	Class	Subclass	Translation Yes No		

Exam Initial	No.	OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)
	1.	Mason et al., 2005, ATF5 regulates the proliferation and differentiation of oligodendrocytes, Mol Cell Neurosci., 29(3):372
	2.	Pluchino et al., 2005, Neural stem cells and their use as therapeutic tool in neurological disorders, Brain Res Brain Res Rev., 48(2):211
	3.	Angelastro et al., 2003, Regulated expression of ATF5 is required for the progression of neural progenitor cells to neurons, J Neurosci., 23(11):4590-600.
•	4.	Cottrell et al., 2003, Silence of the strands: RNA interference in eukaryotic pathogens, Trends Microbiol., 11(1):37-43.

NY02:565244.1	
Examiner	Date Considered

<sup>\*</sup> Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

'Form PTO-1449 U.S. Department of Commerce (REV. 2-82) Patent and Trademark Office	Atty. Docket No. 070050.2897	Serial No. 10/809,312			
. INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Applicant Greene et al.				
(Use several sheets if necessary)	Filing Date March 24, 2004	Group 1636			
	Examiner McGillem, Laura L.				
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Exam Initial	No.	OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)
	5.	Thomas et al., 2003, Progress and problems with the use of viral vectors for gene therapy, Nat. Rev. Genet., 4(5):346-58.
	6.	Beers and Berkow, eds., 1999, The Merck manual of diagnisos and therapy, 17ed., Whitehouse Station, NJ: Merck Research Laboratories, chapter 183.
	7.	Greene et al., 1998, Culture and experimental use of the PC12 rat pheochromocytoma cell line,. In: Culturing nerve cells, 2nd ed., Goslin, G.K., ed., Cambridge, MA, The MIT Press, pp. 161-188.
	8.	Bodansky, 1984, Principles of peptide synthesis, New York: Springer-Verlag New York, Inc. (Table of Contents only).
	9.	Gross and Meienhofer, eds., 1981, Peptides: Analysis, Synthesis, Biology: Modern techniques of peptide and amino acid analysis, New york: John Wiley and Sons. (Table of Contents only).
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NY02:565244.1	
Examiner	Date Considered

<sup>\*</sup> Examiner: Initial citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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1 5000 R						PTO/SB/21 (09-04)	
A Tirrer the Pa	nenwork Reduction Act of 1995	on persons are required to	U.S. Pa	tent and Tr	ademark Office; L	through 07/31/2006. OMB 0651-003/ J.S. DEPARTMENT OF COMMEDCE displays a valid OMB control number.	
ADEM	BEIWOIN NEUROLOIT ACT OF 1995	Application N	lumbor I	10/809,3			
TR	ANSMITTAL	Filing Date		March 2	4, 2004		
	FORM	First Named	Inventor	Greene			
		Art Unit		1636			
(to be used for	all correspondence after initial	filing) Examiner Na	me	McGillen	n, Laura L.		
	Pages in This Submission	Attorney Doo	ket Number	070050.	2897		
		ENCLOSURES	(Check all ti	hat apply	)		
Fee Transmittal Form    Fee Attached					Il Communication to Board eals and Interferences Il Communication to TC Il Notice, Brief, Reply Brief) etary Information Letter Enclosure(s) (please Identify Earch Report, Articles Cited,		
	SIGNA	TURE OF APPLICA	NT, ATTOR	NEY, O	R AGENT		
Firm Name	Baker Botts LLP	22	Customer No	2100	03		
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Printed name	Van J. Nguyen	// //					
Date	10/27/2006		Re	eg. No.	56,571		
sufficient postage	CERTIFICATE OF TRANSMISSION/MAILING  I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below:						
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Typed or printed	<sub>name</sub>				Date	10/27/2006	

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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## FEE TRANSMITTAL for FY 2005

Effective 10/01/2004. Patent fees are subject to annual revision.

Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT

(\$) 180.00

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Co	omplete if Known
Application Number	10/809,312
Filing Date	March 24, 2004
First Named Inventor	Greene
Examiner Name	McGillem, Laura L.
Art Unit	1636
Attorney Docket No.	070050.2897

METHOD OF PAYMEN		FE	E CALCULATION (continued)		
✓ Check Credit card	Money Other None	3. ADDITI	ONAL FEE	ES	
Deposit Account:	Order Line Line	Large Entity	Small Entity	1	
Denosit		Fee Code	Fee Code	Fee Description	Fee Paid
Account 02-4377		1051	2051	Surcharge - tate filing fee or oath	
Deposit Account Baker Botts L.L	P.	1052	2052	Surcharge - late provisional filing fee or cover sheet	
Name The Director is authorized to: (check	k all that apply)	1053	1053	Non-English specification	
Charge fee(s) indicated below	Credit any overpayments	1812	1812	For filing a request for ex parte reexamination	·
Charge any additional fee(s) or any	· · · ·	1804	1804	Requesting publication of SIR prior to Examiner action	
Charge fee(s) indicated below, exc to the above-identified deposit accoun	•	1805	1805	Requesting publication of SIR after Examiner action	
FEE CALCU		1251	2251	Extension for reply within first month	
1. BASIC FILING FEE	LATION	1252	2252	Extension for reply within second month	
Large Entity Small Entity		1253	2253	Extension for reply within third month	
Fee Fee Fee Fee Des	scription Fee Paid	1254	2254	Extension for reply within fourth month	
	filing fee	1255	2255	Extension for reply within fifth month	
1002 2002 Desig	n filing fee	1401	2401	Notice of Appeal	
1003 2003 Plant	filing fee	1402	2402	Filing a brief in support of an appeal	
1004 2004 Reiss	ue filing fee	1403	2403	Request for oral hearing	
1005 2005 Provis	sional filing fee	1451	1451	Petition to institute a public use proceeding	
SUBTO	TAL (1) (\$) 0	1452	2452	Petition to revive - unavoidable	
A EXTRA OLAM SEED SOR		1453	2453	Petition to revive - unintentional	
2. EXTRA CLAIM FEES FOR	Fee from	1501	2501	Utility issue fee (or reissue)	
Extra C		1502	2502	Design issue fee	
Total Claims20 =	X	1503	2503	Plant issue fee	
Claims3 = Multiple Dependent	x <u></u>	1460	1460	Petitions to the Commissioner	
	=0	1807	1807	Processing fee under 37 CFR 1.17(q)	
Large Entity   Small Entity Fee   Fee   Fe	a Dagarintian	1806	1806	Submission of Information Disclosure Stmt	180
Code Code	e Description	8021	8021	Recording each patent assignment per property (times number of properties)	
	ns in excess of 20 pendent claims in excess of 3	1809	2809	Filing a submission after final rejection (37 CFR 1.129(a))	
	ple dependent claim, if not paid	1810	2810	For each additional invention to be	
	eissue independent claims er original patent .	1801	2801	examined (37 CFR 1.129(b))  Request for Continued Examination (RCE)	
1205 2205 ** Re	eissue claims in excess of 20 d over original patent	1802	1802	Request for expedited examination of a design application	
SUBTOTA	L (2) (\$) 0.00	Other fee (sp	ecify)		
**or number previously paid, if grea	\ ' \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	*Reduced by	Basic Filing F	ee Paid SUBTOTAL (3) (\$) 180.	00

SUBMITTED BY		(Complete (	if applicable))		
Name (Print/Type)	Van H. Nguyen	Registration No. (Attorney/Agent)	56,571	Telephone	212-408-2500
Signature	for Marion			Date	10/27/2006

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This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.